

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 March 2005 (10.03.2005)

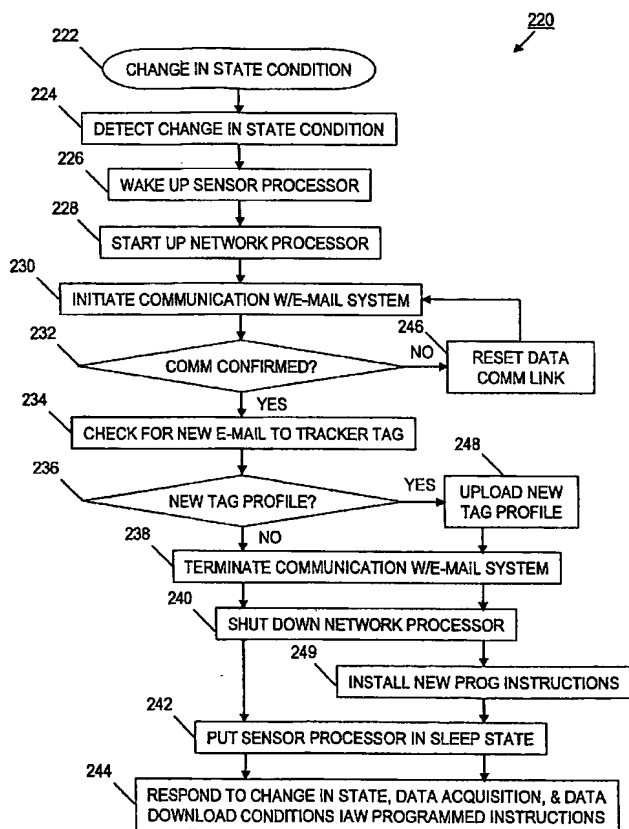
PCT

(10) International Publication Number
WO 2005/022292 A3

- (51) International Patent Classification⁷: **G06F 19/00**
- (21) International Application Number:
PCT/US2004/014025
- (22) International Filing Date: 6 May 2004 (06.05.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
PCT/US03/14483 6 May 2003 (06.05.2003) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US US03/14483 (CIP)
Filed on 6 May 2003 (06.05.2003)
- (71) Applicant (for all designated States except US): **ARGO-TECH CORPORATION** [US/US]; 23555 Euclid Avenue, Cleveland, OH 44117 (US).
- (72) Inventor; and
(75) Inventor/Applicant (for US only): **KOCHIS, Gary** [US/US]; 2663 Corry Circle, Uniontown, OH 44685 (US).
- (74) Agent: **NAUMAN, Timothy, E.; FAY, SHARPE, FAGAIN, MINNICH & McKEE, LLP**, 1100 Superior Avenue, 7th, Cleveland, OH 44114-2518 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US (patent), UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: TRACKING SYSTEM AND ASSOCIATED METHOD



(57) Abstract: A tracking system (10) for tracking movable assets (16) and several methods for using the system are provided. The tracking system includes a monitoring device (22), a tracking information network (20), a data communication network (18), a tracker tag (12), and a tracking information server (14). The tracker tag uses GPS technology. The tracking information server provides programmed instructions to the tracker tag in messages via a messaging system. The tracker tag selectively retrieves the messages from the messaging system. The tracking information server provides tracking information and related information to a subscriber. In one embodiment, the tracker tag is in communication with an Iridium satellite constellation (28) and tracking information is displayed to the subscriber when the asset is substantially anywhere in the world. In another embodiment, the monitoring device is in communication with the Iridium satellite constellation and tracking information is displayed to the subscriber when the subscriber is substantially anywhere in the world, preferably via the Internet (36).



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:

19 May 2005

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.